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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/799,292	03/12/2004	Kyoung-woo Lcc	SAM-0560	8218
7590 10/17/2005			EXAM	INER
Steven M. Mills			SARKAR, ASOK K	
MILLS & ONE	ELLO LLP			
Suite 605			ART UNIT	PAPER NUMBER
Eleven Beacon	Street	2891		
Boston, MA 02108			DATE MAIL ED. 10/17/200	•

Please find below and/or attached an Office communication concerning this application or proceeding.

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	*	Application No.	Applicant(s)	<i>V</i>		
		10/799,292	LEE ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Asok K. Sarkar	2891			
Period fo	The MAILING DATE of this communicat or Reply	ion appears on the cover sheet v	vith the correspondence addres	SS		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL asions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communication of the reply is specified above, the maximum statutor re to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUN CFR 1.136(a). In no event, however, may a ation. The period will apply and will expire SIX (6) MO by statute, cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this commuNBANDONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed o	n <u>12 <i>March 2004</i></u> .				
2a) <u></u> □	This action is FINAL . 2b)[☑ This action is non-final.				
3)	Since this application is in condition for closed in accordance with the practice u			erits is		
Disposit	ion of Claims					
4)⊠ 5)□ 6)□ 7)□	Claim(s) 1-29 is/are pending in the appl 4a) Of the above claim(s) is/are w Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-29 are subject to restriction a	vithdrawn from consideration.				
Applicat	ion Papers					
9)	The specification is objected to by the Ex	xaminer.				
10)[The drawing(s) filed on is/are: a)	☐ accepted or b)☐ objected to	by the Examiner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the The oath or declaration is objected to by	•				
Priority (under 35 U.S.C. § 119					
12) a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International See the attached detailed Office action for	cuments have been received. cuments have been received in the priority documents have bee Bureau (PCT Rule 17.2(a)).	Application No n received in this National Sta	ge		
Attachmen	t(s)					
1) Notice	e of References Cited (PTO-892)	·	Summary (PTO-413)			
2) Notice 3) Infor	ee of Draftsperson's Patent Drawing Review (PTO-mation Disclosure Statement(s) (PTO-1449 or PTC er No(s)/Mail Date		o(s)/Mail Date Informal Patent Application (PTO-15; 	2)		

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DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

Group I. Claims 1 – 15, drawn to method of fabricating interconnection, classified in class 438, subclass 597.

Group II. Claims 16 – 29, drawn to a interconnect device, classified in class 257, subclass 758+.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions Group I and Group II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process such as forming the capacitor by forming a trench and then depositing the lower electrode, capacitor dielectric and the upper electrode instead of depositing the three layers one on another and then patterning the three layers to form the capacitor.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Asok K. Sarkar whose telephone number is 571 272 1970. The examiner can normally be reached on Monday Friday (8 AM- 5 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William B. Baumeister can be reached on 571 272 1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Asok K. Sarkar October 11, 2005

Primary Examiner